

## ABSTRACT

Compositions for the diagnosis and therapy of prostate and colon cancer, derived from or based on a novel prostate-specific, androgen-regulated, cell membrane associated and secreted serine protease termed 20P1F12/TMPRSS2 are described. A full length cDNA comprising the entire coding sequence of the 20P1F12/TMPRSS2 gene (also designated 20P1F12-GTC1 herein) is provided (FIG. 1). Among the compositions provided are antibodies that bind to 20P1F12/TMPRSS2 proteins and polypeptide fragments thereof, including antibodies labeled with a detectable marker or toxin or therapeutic composition. The invention also provides prognostic and diagnostic methods of examining a biological sample for evidence of disregulated cellular growth by comparing the status of 20P1F12/TMPRSS2 in the biological sample to the status of 20P1F12/TMPRSS2 in a corresponding normal sample, wherein alterations in the status of 20P1F12/TMPRSS2 in the biological sample are associated with disregulated cellular growth. The invention further provides various therapeutic compositions and strategies for treating prostate cancer, including particularly, 20P1F12/TMPRSS2 polypeptide and anti-20P1F12/TMPRSS2 antibody therapy methods and compositions, cancer vaccines, and small molecule therapy.

09515385-071200

"Express Mail" mailing label number EL540750139US  
Date of Deposit JULY 12, 2000  
I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail" service under 39 CFR 1.101 on the date indicated above and is addressed to:  
Assistant Commissioner for Planning, Management & Policy  
SHANE MCCLAVE  
(Printed name)  
Shane McClave  
(Signature)